



BWM Body Worn Mesh Radio

Body Worn Video & Audio Mesh Radio For Tactical Use

The BWM is a Mesh enabled radio for video & audio, specifically designed as a body worn solution.

Mesh radios can be combined in a fluid self forming, self healing network containing up to sixteen radios. Radios within the Mesh exchange data on a single frequency, simplifying spectrum management.

The radios offer excellent RF penetration and performance in the presence of multipath. They can operate over typical ranges of 500m in an urban environment or 10KM where line of sight is available.

The BWM incorporates a Mesh radio, rechargeable battery, OLED display and control interface into a rugged water proof chassis. GPS positioning, PTT microphone together with an optional audio headset and VE body worn cameras complete the solution.

The battery is detachable such that it can either be docked on to the base of the transmitter or split to be worn in two separate parts. Batteries can be recharged using the charger unit supplied in the kit.

A Fischer connector supports an Ethernet interface for direct configuration of the radio and connections to wider networks. Power and comms connections to an IP camera is supported via the second Fischer connector on the top of the unit.

The BWM also has an expansion port that supports the breakout of Ethernet, USB, Power and I²C signals.

Status is available via the OLED display, whilst comprehensive control of the Mesh radio is made available via a web browser.

AES encryption is available to ensure the security of transmissions.

Overview

Mesh Enabled Radio

Body Worn Solution

Excellent RF Performance

Integral Battery

Direct or Remote Battery Mounting

Supplied with PTT Microphone

Optional Audio Headset

IP Camera Input

User OLED Display

GPS Positioning

Web Browser Control Interface

Expansion Port

Optional AES Encryption

Water Proof Housing

Rugged Build for Tactical Use



The BWM transmitter includes an integral battery, this can be connected directly to the base of the transmitter as shown on the right.

Alternatively the battery may be remotely positioned to the transmitter with a cable connection between the two.

The two part configuration allows the solution to be belt worn on either side of the body.



The Body Worn Mesh Radio supports an IP camera connection.

The VE body worn camera shown on the right can be clipped to the chest and plugged in directly to the Fischer connector on top of the BWM transmitter.



Alternatively the VE helmet camera, can be used which connects directly on to a Picatinny rail mount.

Both cameras options have a 1920x1080 HD resolution and support either IR or white LED illumination.



Part Number & Description			
BWM	L-Band	1Watt	110-8903

Specifications			
Frequency Options	L, S and C Bands	Mesh Antennas Supplied	Flexible Omnis & Body Worn
Modulation	COFDM 360 Carrier	GPS Antenna Connector	SMA
Sensitivity	-110dBm	Camera & Control	Fischer Connectors
Bandwidth	2.5 to 10MHz	User Control	OLED & Buttons
Max Capacity	12.5Mb/s	Audio Interface	PTT Microphone Supplied Optional Headset
RF Power	1Watt	Expansion Port Signals	Ethernet, USB, Power, I ² C
Typical Range	500m Light Urban 10KM Line of Sight	Total Weight	740 grams
Optional Encryption	AES128, AES256	Dimensions With Battery	200 x 80 x 30mm
Antenna Connectors	QMA	Environmental	IP67

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